

••FILE••ID••OBJEKT

L 5

The diagram illustrates a sequence of binary strings. The leftmost column consists of 11 'L' characters arranged in a staircase pattern. The central column consists of 11 vertical '|' characters. The rightmost column consists of two groups of 'S' characters: a top group of 11 'S' characters forming a staircase, and a bottom group of 11 'S' characters also forming a staircase, with the second group shifted to the right.

1 0001 0 //title 'OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE'
2 0002 0 module objexe (main=anl8objexe,
3 0003 1 ident='V04-000') = begin
4 0004 1
5 0005 1 '
6 0006 1 ======
7 0007 1 •
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25 0025 1 •
26 0026 1 •
27 0027 1 ======
28 0028 1 '
29 0029 1
30 0030 1 ..
31 0031 1 Facility: VAX/VMS Analyze Facility, ANALYZE/OBJECT and ANALYZE/IMAGE
32 0032 1
33 0033 1 Abstract: The VAX/VMS Analyze facility provides the ANALYZE command,
34 0034 1 which allows the user to perform analyses of various aspects
35 0035 1 of VMS. This image supports the following categories:
36 0036 1
37 0037 1 ANALYZE/IMAGE
38 0038 1 ANALYZE/OBJECT Analyze object file contents.
39 0039 1
40 0040 1
41 0041 1 Environment: Native, User Mode.
42 0042 1
43 0043 1 Author: Paul C. Anagnostopoulos, Creation Date: 6 January 1981
44 0044 1
45 0045 1 Modified By:
46 0046 1
47 0047 1 V03-001 DGB0052 Donald G. Blair 10-May-1984
48 0048 1 Establish a condition handler to save an error
49 0049 1 status when it is signaled so that we can return
50 0050 1 the status correctly upon image exit.
51 0051 1 --

```
52 0052 1 %%bttl 'Module Declarations'
53 0053 1
54 0054 1 : Libraries and Requires:
55 0055 1
56 0056 1
57 0057 1 library 'starlet';
58 0058 1 require 'objexereq';
59 0494 1
60 0495 1
61 0496 1 : Table of Contents:
62 0497 1
63 0498 1
64 0499 1 forward routine
65 0500 1     anl$condition_handler,
66 0501 1     anl$objexe: novalue;
67 0502 1
68 0503 1
69 0504 1 : External References:
70 0505 1
71 0506 1
72 0507 1 external routine
73 0508 1     anl$exit_with_status,
74 0509 1     anl$image,
75 0510 1     anl$object,
76 0511 1     cli$present: addressing_mode(general),
77 0512 1     lib$establish: addressing_mode(general);
78 0513 1
79 0514 1
80 0515 1 : Own Variables:
81 0516 1
```

```
: 84      0517 1 %sbtll 'ANL$OBJEXE - Main Routine'  
: 85      0518 1 '+'  
: 86      0519 1 Functional Description:  
: 87      0520 1 This is the main routine for this analyze image. All we do here  
: 88      0521 1 is decide which category the user has requested and dispatch to  
: 89      0522 1 the appropriate routine for handling it.  
: 90      0523 1  
: 91      0524 1 Formal Parameters:  
: 92      0525 1 none  
: 93      0526 1  
: 94      0527 1 Implicit Inputs:  
: 95      0528 1 global data  
: 96      0529 1  
: 97      0530 1 Implicit Outputs:  
: 98      0531 1 global data  
: 99      0532 1  
: 100     0533 1 Returned Value:  
: 101     0534 1 Successful status returned to VMS.  
: 102     0535 1  
: 103     0536 1 Side Effects:  
: 104     0537 1  
: 105     0538 1 '--  
: 106     0539 1  
: 107     0540 1  
: 108     0541 2 global routine anl$objexe: novalue = begin  
: 109     0542 2  
: 110     0543 2  
: 111     0544 2 lib$establish(anl$condition_handler);  
: 112     0545 2  
: 113     0546 2 Just decide which category of analysis the user wants. The default is  
: 114     0547 2 ANALYZE/OBJECT.  
: 115     0548 2  
: 116     0549 2 if cli$present(describe('!IMAGE')) then  
: 117     0550 2         anl$image()  
: 118     0551 2 else  
: 119     0552 2         anl$object();  
: 120     0553 2  
: 121     0554 2 ' All done. Just return a nice status to Mother VMS...  
: 122     0555 2  
: 123     0556 2 anl$exit_with_status();  
: 124     0557 2  
: 125     0558 1 end;
```

```
:  
.TITLE OBJEXE OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE  
.IDENT E V04-0001  
.PSECT SPLITS,NOWRT,NOEXE,2  
  
45 47 41 4D 49 00000 P.AAB: .ASCII \IMAGE\  
00005 .BLKB 3 ;  
00000005 00008 P.AAA: .LONG 5 ;  
00000000' 0000C .ADDRESS P.AAB ;  
  
.EXTRN ANLOBJS_OK, ANLOBJS_ANYTHING  
.EXTRN ANLOBJS_DATATYPE
```

.EXTRN ANLOBJ\$-ERRORCOUNT
.EXTRN ANLOBJ\$-ERRORNONE
.EXTRN ANLOBJ\$-ERRORS, ANLOBJ\$-EXEFIXA
.EXTRN ANLOBJ\$-EXEFIXAIMAGE
.EXTRN ANLOBJ\$-EXEFIXALINE
.EXTRN ANLOBJ\$-EXEFIXCOUNT
.EXTRN ANLOBJ\$-EXEFIXEXTRA
.EXTRN ANLOBJ\$-EXEFIXFIXED
.EXTRN ANLOBJ\$-EXEFIXFLAGS
.EXTRN ANLOBJ\$-EXEFIXG
.EXTRN ANLOBJ\$-EXEFIXGIMAGE
.EXTRN ANLOBJ\$-EXEFIXGLINE
.EXTRN ANLOBJ\$-EXEFIXLIST
.EXTRN ANLOBJ\$-EXEFIXNAME
.EXTRN ANLOBJ\$-EXEFIXNAMEO
.EXTRN ANLOBJ\$-EXEFIXP
.EXTRN ANLOBJ\$-EXEFIXPSECT
.EXTRN ANLOBJ\$-EXEFIXUP
.EXTRN ANLOBJ\$-EXEFIXUPNONE
.EXTRN ANLOBJ\$-EXEGST, ANLOBJ\$-EXEHDR
.EXTRN ANLOBJ\$-EXEHDRACTIVE
.EXTRN ANLOBJ\$-EXEHDRBLKCOUNT
.EXTRN ANLOBJ\$-EXEHDRCHANCOUNT
.EXTRN ANLOBJ\$-EXEHDRCHANDEF
.EXTRN ANLOBJ\$-EXEHDRDECECO
.EXTRN ANLOBJ\$-EXEHDRDMT
.EXTRN ANLOBJ\$-EXEHDRDST
.EXTRN ANLOBJ\$-EXEHDRFILEID
.EXTRN ANLOBJ\$-EXEHDRFIXED
.EXTRN ANLOBJ\$-EXEHDRFLAGS
.EXTRN ANLOBJ\$-EXEHDRGBLIDENT
.EXTRN ANLOBJ\$-EXEHDRGST
.EXTRN ANLOBJ\$-EXEHDRIDENT
.EXTRN ANLOBJ\$-EXEHDRIMAGEID
.EXTRN ANLOBJ\$-EXEHDRISD
.EXTRN ANLOBJ\$-EXEHDRISDBASE
.EXTRN ANLOBJ\$-EXEHDRISDCOUNT
.EXTRN ANLOBJ\$-EXEHDRISDFLAGS
.EXTRN ANLOBJ\$-EXEHDRISDGBLNAM
.EXTRN ANLOBJ\$-EXEHDRISDNUM
.EXTRN ANLOBJ\$-EXEHDRISDPFCDEF
.EXTRN ANLOBJ\$-EXEHDRISDPFCSIZ
.EXTRN ANLOBJ\$-EXEHDRISDTYPE
.EXTRN ANLOBJ\$-EXEHDRISDVBN
.EXTRN ANLOBJ\$-EXEHDRLINKID
.EXTRN ANLOBJ\$-EXEHDRMATCH
.EXTRN ANLOBJ\$-EXEHDRNAME
.EXTRN ANLOBJ\$-EXEHDRNOPATCH
.EXTRN ANLOBJ\$-EXEHDRPAGECOUNT
.EXTRN ANLOBJ\$-EXEHDRPAGEDEF
.EXTRN ANLOBJ\$-EXEHDRPATCH
.EXTRN ANLOBJ\$-EXEHDRPATCHDATE
.EXTRN ANLOBJ\$-EXEHDRPRIV
.EXTRN ANLOBJ\$-EXEHDRROPATCH
.EXTRN ANLOBJ\$-EXEHDRRWPATCH
.EXTRN ANLOBJ\$-EXEHDRSYMDBG
.EXTRN ANLOBJ\$-EXEHDRSYSVER

.EXTRN ANLOBJS_EXEHDRTEXTVBN
.EXTRN ANLOBJS_EXEHDRTIME
.EXTRN ANLOBJS_EXEHDRTYPEEXE
.EXTRN ANLOBJS_EXEHDRTYPELIM
.EXTRN ANLOBJS_EXEHDRUSERECO
.EXTRN ANLOBJS_EXEHDRXFER1
.EXTRN ANLOBJS_EXEHDRXFER2
.EXTRN ANLOBJS_EXEHDRXFER3
.EXTRN ANLOBJS_EXEHEADING
.EXTRN ANLOBJS_EXEPATCH
.EXTRN ANLOBJS_FLAG, ANLOBJS_HECDATA
.EXTRN ANLOBJS_HEXHEADING1
.EXTRN ANLOBJS_HEXHEADING2
.EXTRN ANLOBJS_INDMMSGSEC
.EXTRN ANLOBJS_INTERACT
.EXTRN ANLOBJS_MASK, ANLOBJS_OBJCPRECC
.EXTRN ANLOBJS_OBJDBGREC
.EXTRN ANLOBJS_OBJENV, ANLOBJS_OBJEOMFLAGS
.EXTRN ANLOBJS_OBJEOMREC
.EXTRN ANLOBJS_OBJEOMSEVABT
.EXTRN ANLOBJS_OBJEOMSEVERR
.EXTRN ANLOBJS_OBJEOMSEVIGN
.EXTRN ANLOBJS_OBJEOMSEVRES
.EXTRN ANLOBJS_OBJEOMSEVSUC
.EXTRN ANLOBJS_OBJEOMSEVWRN
.EXTRN ANLOBJS_OBJEOMWREC
.EXTRN ANLOBJS_OBJFADPASSMECH
.EXTRN ANLOBJS_OBJGSDENV
.EXTRN ANLOBJS_OBJGSDENVFLAGS
.EXTRN ANLOBJS_OBJGSDENVPAR
.EXTRN ANLOBJS_OBJGSDEPM
.EXTRN ANLOBJS_OBJGSDEPMW
.EXTRN ANLOBJS_OBJGSDIDC
.EXTRN ANLOBJS_OBJGSDIDCENT
.EXTRN ANLOBJS_OBJGSDIDCFLAGS
.EXTRN ANLOBJS_OBJGSDIDCMATCH
.EXTRN ANLOBJS_OBJGSDIDCOBJ
.EXTRN ANLOBJS_OBJGSDIDCVALA
.EXTRN ANLOBJS_OBJGSDIDCVALB
.EXTRN ANLOBJS_OBJGSDL_EPM
.EXTRN ANLOBJS_OBJGSDLPRO
.EXTRN ANLOBJS_OBJGSDL_SY
.EXTRN ANLOBJS_OBJGSDPRO
.EXTRN ANLOBJS_CBJGSDPROW
.EXTRN ANLOBJS_OBJGSDPSC
.EXTRN ANLOBJS_OBJGSDPSCALIGN
.EXTRN ANLOBJS_OBJGSDPSCALLOC
.EXTRN ANLOBJS_OBJGSDPSCBASE
.EXTRN ANLOBJS_OBJGSDPSCFLAGS
.EXTRN ANLOBJS_OBJGSDREC
.EXTRN ANLOBJS_OBJGSDSPSC
.EXTRN ANLOBJS_OBJGSDSYM
.EXTRN ANLOBJS_OBJGSDSYM_W
.EXTRN ANLOBJS_OBJGT_XREC
.EXTRN ANLOBJS_OBJHDRIGNREC
.EXTRN ANLOBJS_OBJHEADING
.EXTRN ANLOBJS_OBJLITINDEX

OBJEXE
V04-000

OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE
ANL\$OBJEXE - Main Routine

E 6
15-Sep-1984 23:36:17 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 11:52:46 [ANALYZ.SRC]OBJEXE.B32;1

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```
.EXTRN ANLOBJS_OBJLNKREC
.EXTRN ANLOBJS_OBJLNMRREC
.EXTRN ANLOBJS_OBJJMHDCREATE
.EXTRN ANLCBJS_OBJJMHDNAME
.EXTRN ANLOBJS_OBJJMHDPATCH
.EXTRN ANLOBJS_OBJJMHDREC
.EXTRN ANLOBJS_OBJJMHDRECSIZ
.EXTRN ANLOBJS_OBJJMHDTRLVL
.EXTRN ANLOBJS_OBJJMHDVERSION
.EXTRN ANLOBJS_OBJJMTCCORRECT
.EXTRN ANLOBJS_OBJJMTCINPUT
.EXTRN ANLOBJS_OBJJMTCNAME
.EXTRN ANLOBJS_OBJJMTCREC
.EXTRN ANLOBJS_OBJJMTCSEQNUM
.EXTRN ANLOBJS_OBJJMTCUIC
.EXTRN ANLOBJS_OBJJMTCVERSION
.EXTRN ANLOBJS_OBJJMTCWHEN
.EXTRN ANLOBJS_OBJPROARGCOUNT
.EXTRN ANLOBJS_OBJPROARGNUM
.EXTRN ANLOBJS_OBJPSECT
.EXTRN ANLOBJS_OBJSRCREC
.EXTRN ANLOBJS_OBJSTATHEADING1
.EXTRN ANLOBJS_OBJSTATHEADING2
.EXTRN ANLOBJS_OBJSTATLINE
.EXTRN ANLOBJS_OBJSTATTOTAL
.EXTRN ANLOBJS_OBJSYMBOL
.EXTRN ANLOBJS_OBJSYMFFLAGS
.EXTRN ANLOBJS_OBJTIRARGINDEX
.EXTRN ANLOBJS_OBJTIRCMD
.EXTRN ANLOBJS_OBJTIRCMDSTK
.EXTRN ANLOBJS_OBJTBTRREC
.EXTRN ANLOBJS_OBJTIRREC
.EXTRN ANLOBJS_OBJTIRSTOIM
.EXTRN ANLOBJS_OBJTIRVIELD
.EXTRN ANLOBJS_OBJTTLREC
.EXTRN ANLOBJS_OBJVALUE
.EXTRN ANLOBJS_OBJUVALUE
.EXTRN ANLOBJS_PROTECTION
.EXTRN ANLOBJS_SEVERITY
.EXTRN ANLOBJS_TEXT, ANLOBJS_TEXTHDR
.EXTRN ANLOBJS_NOSUCHMOD
.EXTRN ANLOBJS_BADDATE
.EXTRN ANLOBJS_BADHDRBLKCOUNT
.EXTRN ANLOBJS_BADSEVERITY
.EXTRN ANLOBJS_BADSYM1ST
.EXTRN ANLOBJS_BADSYMCHAR
.EXTRN ANLOBJS_BADSYMLEN
.EXTRN ANLOBJS_EXEBADF1XUPEND
.EXTRN ANLOBJS_EXEBADF1XUPISD
.EXTRN ANLOBJS_EXEBADF1XJPVBN
.EXTRN ANLOBJS_EXEBADISDS1
.EXTRN ANLOBJS_EXEBADISDTYPE
.EXTRN ANLOBJS_EXEBADMATCH
.EXTRN ANLOBJS_EXEBADPATCHLEN
.EXTRN ANLOBJS_EXEBADOBJ
.EXTRN ANLOBJS_EXEBADTYPE
.EXTRN ANLOBJS_EXEBADXERO
```

.EXTRN ANLOBJS_EXEHDRISDLONG
.EXTRN ANLOBJS_EXEHDRLONG
.EXTRN ANLOBJS_EXEISDLENDZRO
.EXTRN ANLOBJS_EXEISDLENGBL
.EXTRN ANLOBJS_EXEISDLENPRIV
.EXTRN ANLOBJS_EXENO*NATIVE
.EXTRN ANLOBJS_EXTRABYTES
.EXTRN ANLOBJS_FIELDFILT
.EXTRN ANLOBJS_FLAGERROR
.EXTRN ANLOBJS_NOTOK, ANLOBJS_OBJBADIDCMATCH
.EXTRN ANLOBJS_OBJBADNUM
.EXTRN ANLOBJS_OBJBADPOP
.EXTRN ANLOBJS_OBJBADPUSH
.EXTRN ANLOBJS_OBJBADTYPE
.EXTRN ANLOBJS_OBJBADVIELD
.EXTRN ANLOBJS_OBJEOMBADSEV
.EXTRN ANLOBJS_OBJEOMMISSING
.EXTRN ANLOBJS_OBJFADBADCVC
.EXTRN ANLOBJS_OBJFADBADRBC
.EXTRN ANLOBJS_OBJGSDBADALIGN
.EXTRN ANLOBJS_OBJGSDBADSUBTYP
.EXTRN ANLOBJS_OBJHDRRES
.EXTRN ANLOBJS_OBJMHDBADRECSIZ
.EXTRN ANLOBJS_OBJMHDBADTRLVL
.EXTRN ANLOBJS_OBJMHDMISSING
.EXTRN ANLOBJS_OBJNONTIRCMD
.EXTRN ANLOBJS_OBJNOPSC
.EXTRN ANLOBJS_OBJNULLREC
.EXTRN ANLOBJS_OBJPOSPACE
.EXTRN ANLOBJS_OBJPROMINMAX
.EXTRN ANLOBJS_OBJPSCABSLEN
.EXTRN ANLOBJS_OBJRECTTOOBIG
.EXTRN ANLOBJS_OBJTIRRES
.EXTRN ANLOBJS_OBJUNDEFENV
.EXTRN ANLOBJS_OBJUNDEFLIT
.EXTRN ANLOBJS_OBJUNDEFPSC
.EXTRN ANALYZES FACILITY
.EXTRN ANLSEXIT WITH STATUS
.EXTRN ANLSIMAGE, ANESOBJECT
.EXTRN CLISPRESSENT, LIB\$ESTABLISH

```

.ENTRY    ANL$OBJEXE, Save nothing          : 0541
PUSHAB   ANL$CONDITION_HANDLER           : 0544
CALLS    #1, LIB$ESTABLISH
PUSHAB   P.AAA                           : 0549
CALLS    #1, CLISPRESNT
BLBC     R0, 1$                            :
CALLS    #0, ANL$IMAGE                     : 0550
BRB      2$                                :
CALLS    #0, ANL$OBJECT                   : 0552
CALLS    #0, ANL$EXIT_WITH_STATUS         : 0556
RET

```

; Routine Size: 45 bytes, Routine Base: \$CODES + 0000

OBJEXE
V04-000

OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE
ANL\$OBJEXE - Main Routine

6 6
15-Sep-1984 23:36:17 VAX-11 Bliss-32 v4.0-742
14-Sep-1984 11:52:46 [ANALYZ.SRC]OBJEXE.B32;1

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```

127 0559 1 Isbttl 'ANL$CONDITION_HANDLER - Save the ANL$WORST_ERROR status'
128 0560 1 /**
129 0561 1 Functional Description:
130 0562 1 There are 2 ways that errors are handled in ANALYZE/OBJ and
131 0563 1 ANALYZE/IMAGE. In general, ANL$FORMAT_ERROR is called whenever
132 0564 1 an error is discovered in the object/image file. LIB$SIGNAL
133 0565 1 is called for most other sorts of errors. In order to keep
134 0566 1 track of the worst error that has occurred, since there are 2
135 0567 1 error reporting mechanisms, we need to save the worst error
136 0568 1 status both in this condition handler (relevant for calls to
137 0569 1 lib$signal) and in anl$format_error.
138 0570 1
139 0571 1 Formal Parameters:
140 0572 1 signal_args = Address of signal argument list
141 0573 1 mechanism_args = Address of mechanism array
142 0574 1
143 0575 1 Implicit Inputs:
144 0576 1 none
145 0577 1
146 0578 1 Returned Value:
147 0579 1 ss$_resignal Continue to search call frames.
148 0580 1
149 0581 1 Side Effects:
150 0582 1 anl$worst_error is updated with highest severity error.
151 0583 1
152 0584 1 ---
153 0585 1
154 0586 2 global routine anl$condition_handler (signal_args, mechanism_args) = begin
155 0587 2
156 0588 2 map
157 0589 2   signal_args:    ref bblock,      ! Address of signal argument list
158 0590 2   mechanism_args: ref bblock;    ! Address of mechanism argument list
159 0591 2
160 0592 2 external
161 0593 2   anl$worst_error;          ! the worst error status we've found so far
162 0594 2
163 0595 2 local
164 0596 2   code:                  bblock [long]; ! Condition code (longword)
165 0597 2
166 0598 2   code = .signal_args [chf$1_sig_name];       ! Get condition code
167 0599 2   if severity_level (.code) gtr
168 0600 3     severity_level (.anl$worst_error)        ! If higher than watermark
169 0601 2   then anl$worst_error = .code;             ! -then set new worst error
170 0602 2
171 0603 2 return ss$_resignal;
172 0604 2
173 0605 1 end;

```

.EXTRN ANL\$WORST_ERROR

					.ENTRY ANL\$CONDITION_HANDLER, Save R2,R3	: 0586
		50	04	000C 00000	MOVL SIGNAL_ARGS, R0	: 0598
		53	04	A0 D0 00002	MOVL 4(R0),CODE	: 0599
		50	53	D0 00006	MOVL CODE, TMP_CODE	
51	50	03	00	EF 0000A	EXTZV #0, #3, TMP_CODE, R1	

50	50	01	00 EF 00012	EXTZV #0, #1, TMP_CODE, R0	
		50	04 C4 00017	MULL2 #4, R0	
		51	50 C2 0001A	SUBL2 R0, R1	
		51	03 C0 0001D	ADDL2 #3, R1	
52	50	0000G	CF DD 00020	MOVL ANL\$WORST_ERROR, TMP_CODE	0600
		03	00 EF 00025	EXTZV #0, #3, TMP_CODE, R2	
		01	00 EF 0002A	EXTZV #0, #1, TMP_CODE, R0	
		50	04 C4 0002F	MULL2 #4, R0	
		52	50 C2 00032	SUBL2 R0, R2	
		50	03 A2 9E 00035	MOVAB 3(R2), R0	
		50	51 D1 00039	CMPL R1, R0	
			05 15 0003C	BLEQ 1S	
		0000G	CF 53 DD 0003E	MOVL CODE, ANL\$WORST_ERROR	0601
		50	0918 8F 3C 00043	MOVZWL #2328, R0	0603
			18:	RET	0605

; Routine Size: 73 bytes. Routine Base: \$CODES + 002D

; 174 0606 1
; 175 0607 0 end eludom

PSECT SUMMARY

Name	Bytes	Attributes
\$PLITS	16 NOVEC,NOWRT, RD, NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	
\$CODES	118 NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)	

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_\$255\$DUA2B:[SYSLIB]STARLET.L32:1	9776	12	0	581	00:01.0

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$OBJEXE/OBJ-OBJ\$OBJEXE MSRC\$OBJEXE/UPDATE (ENH\$OBJEXE)

Size: 118 code + 16 data bytes
Run Time: 00:06.6
Elapsed Time: 00:09.1

OBJEXE - ANALYZE/OBJECT and ANALYZE/IMAGE
ANL\$CONDITION_HANDLER - Save the ANL\$WORST_ERROR 13-Sep-1984 23:36:17 VAX-11 Bliss-32 v4.0-762

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: Lines/CPU Min: 5518
: Lexemes/CPU-Min: 15227
: Memory Used: 113 pages
: Compilation Complete

0006 AH-BT13A-SE
VAX/VMS V4.0

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